EuroTecH
THE COMPLETE EMBEDDED PC SOLUTION

EmbeddedDNA®
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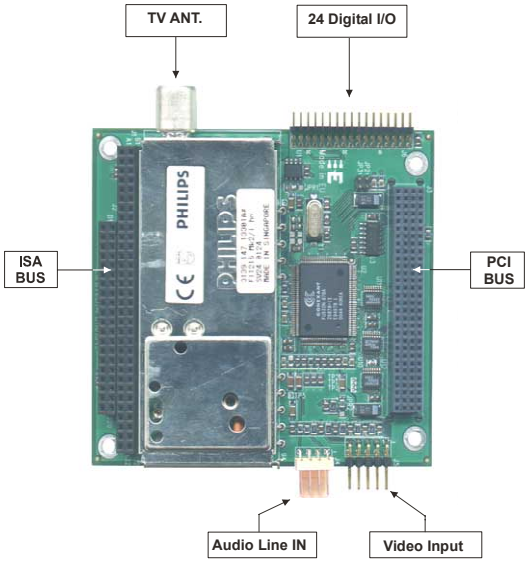
INT-1461 Frame Grabber DATA SHEET

Features

- NTSC/PAL/SECAM video decoding
- Supports capture resolutions up to 768 x 576 (full PAL)
- On-chip PCI bus mastering and bridge functionality
- Supports HDTV/audio/MPEG2 transport data across PCI bus
- High-speed parallel port supports MPEG transport streams up to 20 Mbps
- Flexible 24-bit wide GPIO
- CCIR656 interface
- Multiple YCrCb and RGB pixel formats and YUV planar formats supported on output
- Selectable pixel density: 8, 16, 24, and 32 bits per pixel
- Performs complex clipping of video source and VGA video overlay
- Permits different program control and color space/scaling for even and odd fields
- Executes Windows 98 “Scatter and Gather”
- Integrates advanced chroma and luma comb filters/scalers
- Image scaleable in X and Y direction
- Y/C, 6-tap luma/2-tap chroma polyphase filter
- Includes VBI data capture (closed captioning, teletext, and Intercast data decoding)
- 100% PCI Rev. 2.2 compliant
- PC 98/PC 99 compliant
- Philips FI1216 MK2 video TV tuner (optional)



General Description

The INT-1461 is a complete, low cost, single-chip solution for analog broadcast signal capture on the PCI bus. The INT-1461 takes advantage of the PCI-based system's high bandwidth and inherent multimedia capability. It is designed to be interoperable with any other PCI multimedia device.
The INT-1461 has all the video and audio capture features that allow you to put high performance multimedia functionalities into your Embedded System. Designed to address the demanding requirements of the digital video industry, the INT-1461 meets PC98/PC99 requirements as well as being fully PCI 2.2 compliant. It can capture single frames from up to 4 different analog video inputs at the same time. The INT-1461 can be used as the hub of an Embedded PC system connecting the multiple analog and digital video sources to the CPU module via a single PCI connection. The INT-1461 also includes (as an option) the FI1216 MK2 video TV tuner.

Physical Characteristics

Architecture:
- PC/104-Plus compliant

Dimensions:
- Compliant with the PC/104-Plus standard:
- 90L x 96W x 30H mm (3.6”x3.8”x1.7”)

Bus:
- PCI bus (32-bit, 33MHz) according to the
- PC/104-Plus spec.

Power Supply:
- Single +5V

Power Consumption:
- 250mA @ 5V (typical)

Connectors:
- 4 composite video input / 3 composite video input + 1 S-VHS video input
- 1 Audio Line In
- 1 pass-through coax RF input (with TV Tuner option)
- 24 General purpose Digital I/O
- PC/104 bus connector
- PC/104-Plus bus connector

Operating temp.:
- 0°C/+60°C (Ext. temp. range versions available)

Storage temp.:
- -40°C/+85°C

Applications

- PC television
- Digital television
- Digital VCR
- Desktop video phone
- Still frame capture
- VBI data service capture

Options

- Conformal Coating
- Extended Operating Temperature Range
- Custom Connectors

Order Codes

- **INT-1461-00**: INT-1461 Frame Grabber
- **INT-1461-01**: INT-1461 Frame Grabber with TV Tuner

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